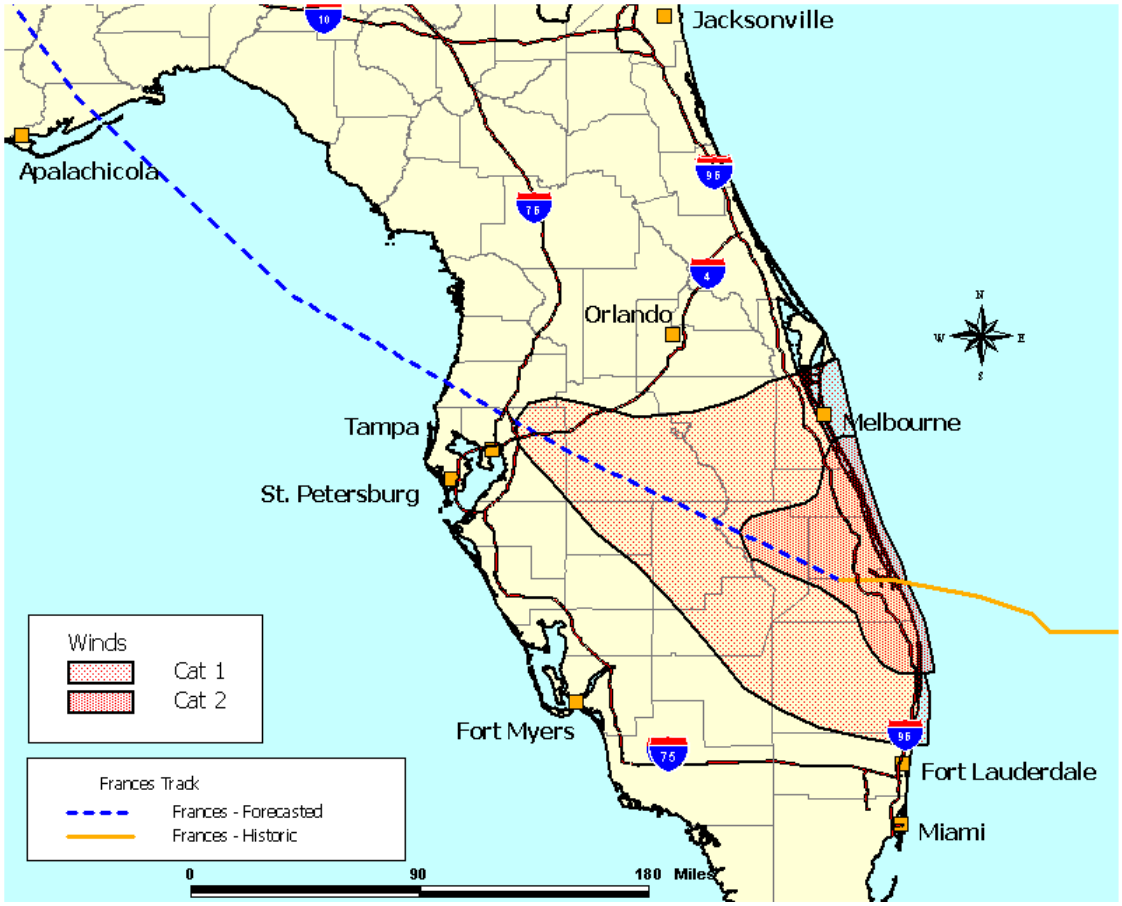
Hurricane Frances Wind Distribution

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a Category 2 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/05/2004)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Wind Field

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date:
0630 EDT
09/05/2004

Hurricane Frances Debris Model

Landfall Has Occurred

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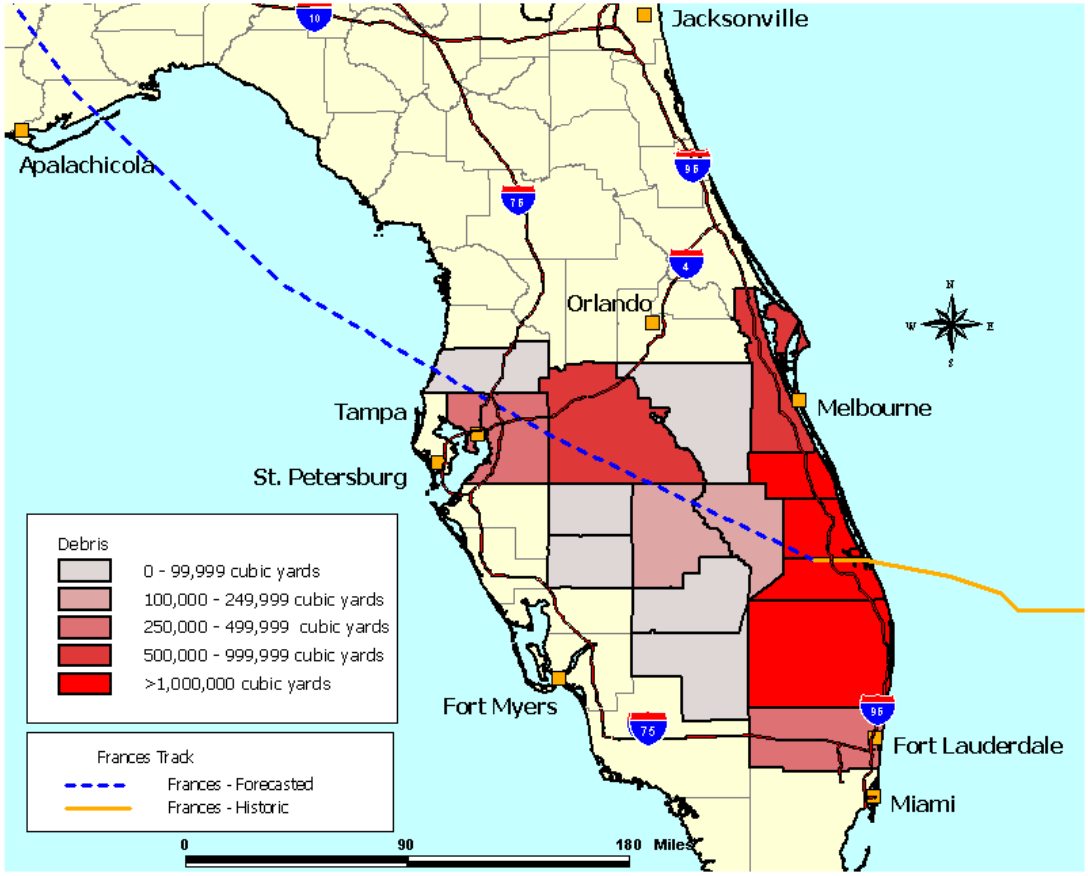

Most Probable Landfall Debris Model Results

Florida – 13,913,000 yd^3

Model results per county on following page

This hurricane scenario is based on a Category 2 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/05/2004)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
0630 EDT
09/05/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Debris Model

Landfall Has Occurred

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State	County	Yards per County
Florida		
	Brevard	1,189,000
	Broward	368,000
	De Soto	2,000
	Glades	62,000
	Hardee	22,000
	Hendry	21,000
	Highlands	350,000
	Hillsborough	291,000
	Indian River	2,178,000
	Martin	2,350,000
	Okeechobee	194,000
	Osceola	39,000
	Palm Beach	3,650,000
	Pasco	25,000
	Polk	835,000
	St Lucie	2,337,000
TOTAL		13,913,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Debris Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
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Generated Date:
0630 EDT
09/05/2004

Hurricane Frances Ice Model

Landfall Has Occurred

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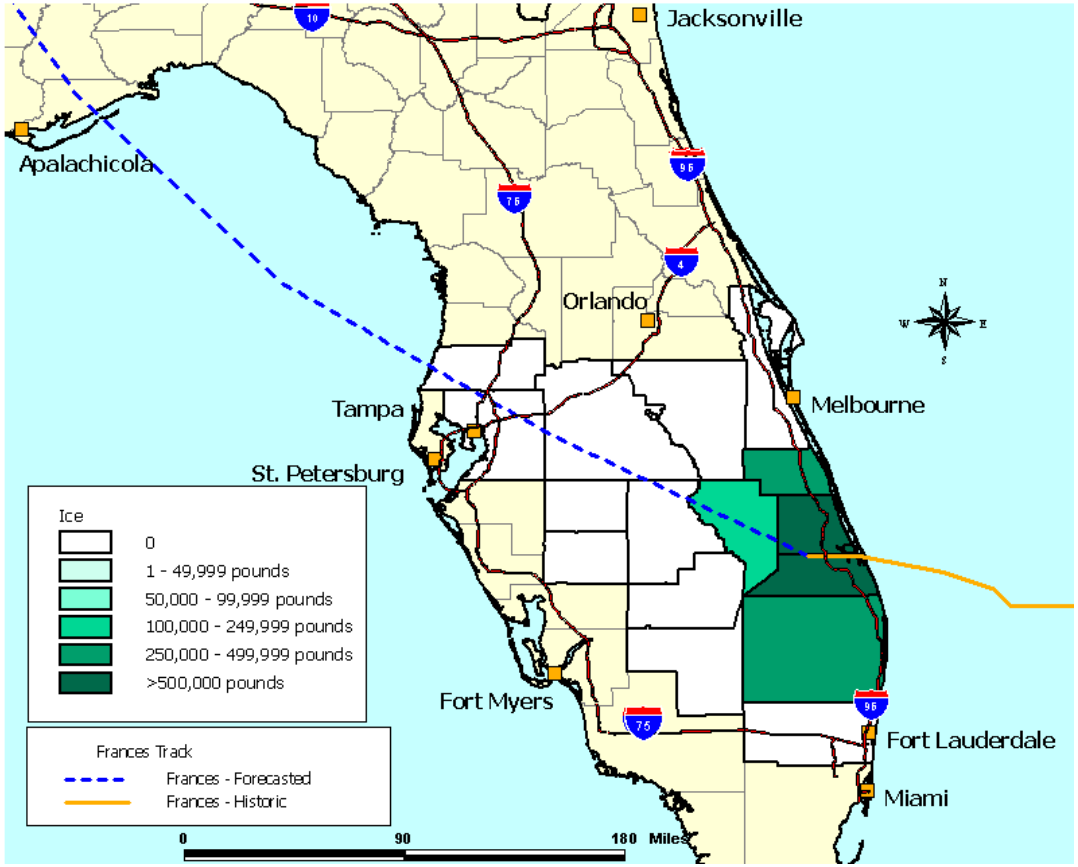

Most Probable Landfall Ice Model Results

Florida – 2,288,000 pounds

Model results per county on following page

This hurricane scenario is based on a Category 2 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/05/2004)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/05/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Ice Model

Landfall Has Occurred

For Official Use Only!

State	County	Pounds per County
Florida		
	Indian River	417,000
	Martin	554,000
	Okeechobee	152,000
	Palm Beach	323,000
	St Lucie	842,000
TOTAL		2,288,000

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/05/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Water Model

Landfall Has Occurred

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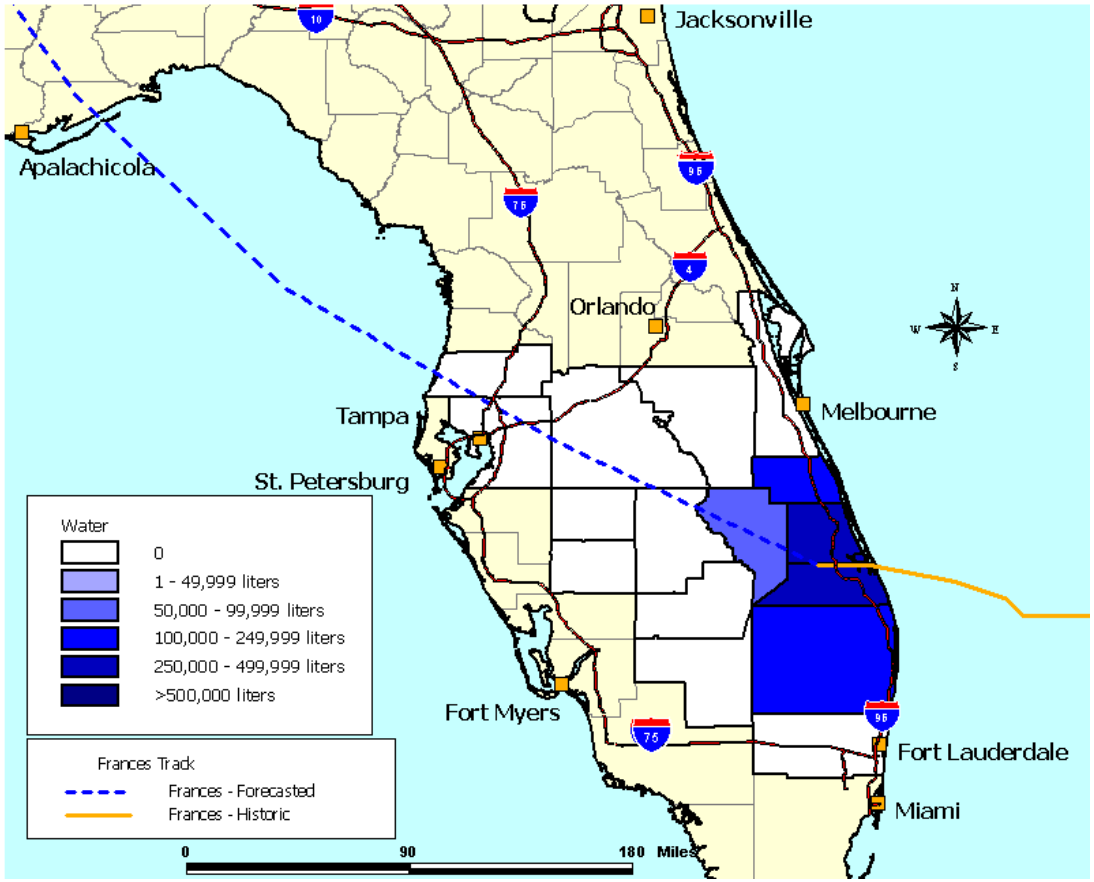


Most Probable Landfall Water Model Results

Florida – 1,183,000 liters

Model results per county on following page

This hurricane scenario is based on a Category 2 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/05/2004)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Water Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/05/2004

Hurricane Frances Water Model

Landfall Has Occurred

For Official Use Only!

State	County	Liters per County
Florida		
	Indian River	208,000
	Martin	277,000
	Okeechobee	79,000
	Palm Beach	197,000
	St Lucie	422,000
TOTAL		1,183,000

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/05/2004

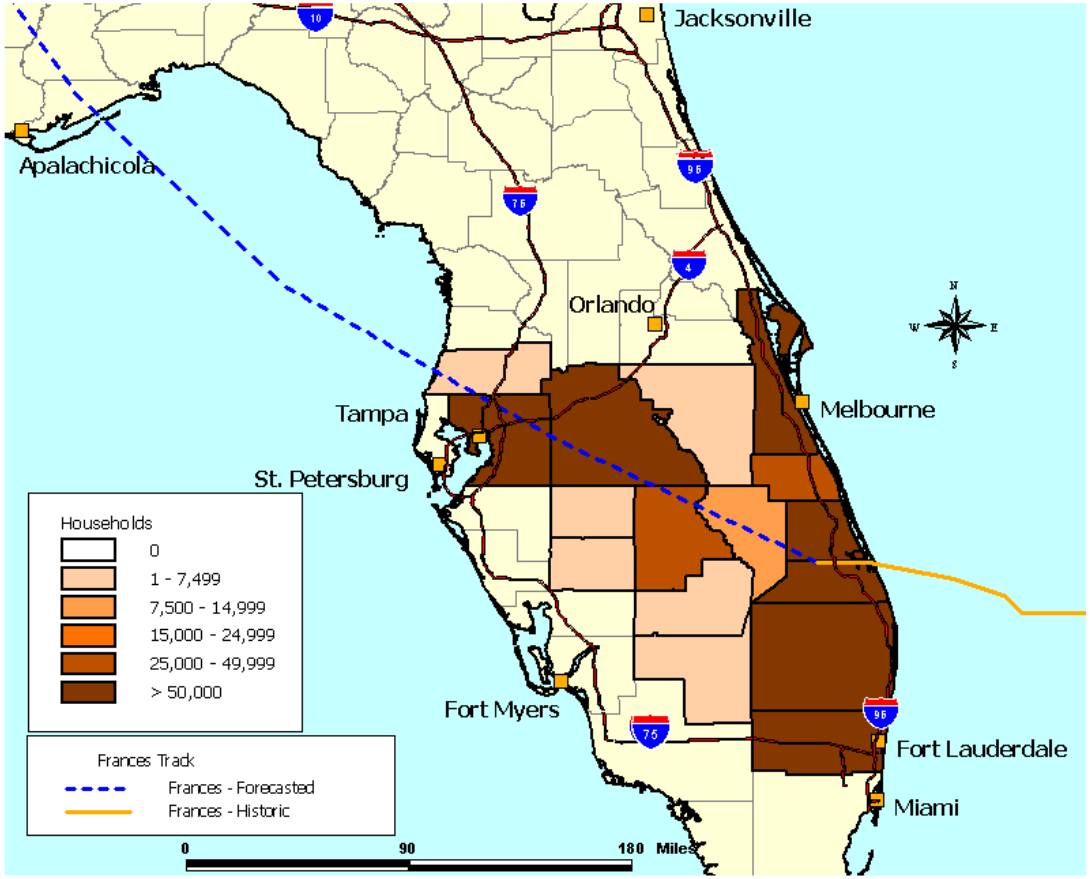
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Households Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Households Model Results

Florida – 1,138,000 households

Model results per county on following page

This hurricane scenario is based on a Category 2 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/05/2004)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/05/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Households Model

Landfall Has Occurred

For Official Use Only!

State	County	Households
Florida		
	Brevard	148,000
	Broward	68,000
	De Soto	< 1,000
	Glades	3,000
	Hardee	5,000
	Hendry	5,000
	Highlands	37,000
	Hillsborough	64,000
	Indian River	49,000
	Martin	55,000
	Okeechobee	13,000
	Osceola	5,000
	Palm Beach	432,000
	Pasco	5,000
	Polk	172,000
	St Lucie	77,000
TOTAL		1,138,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/05/2004

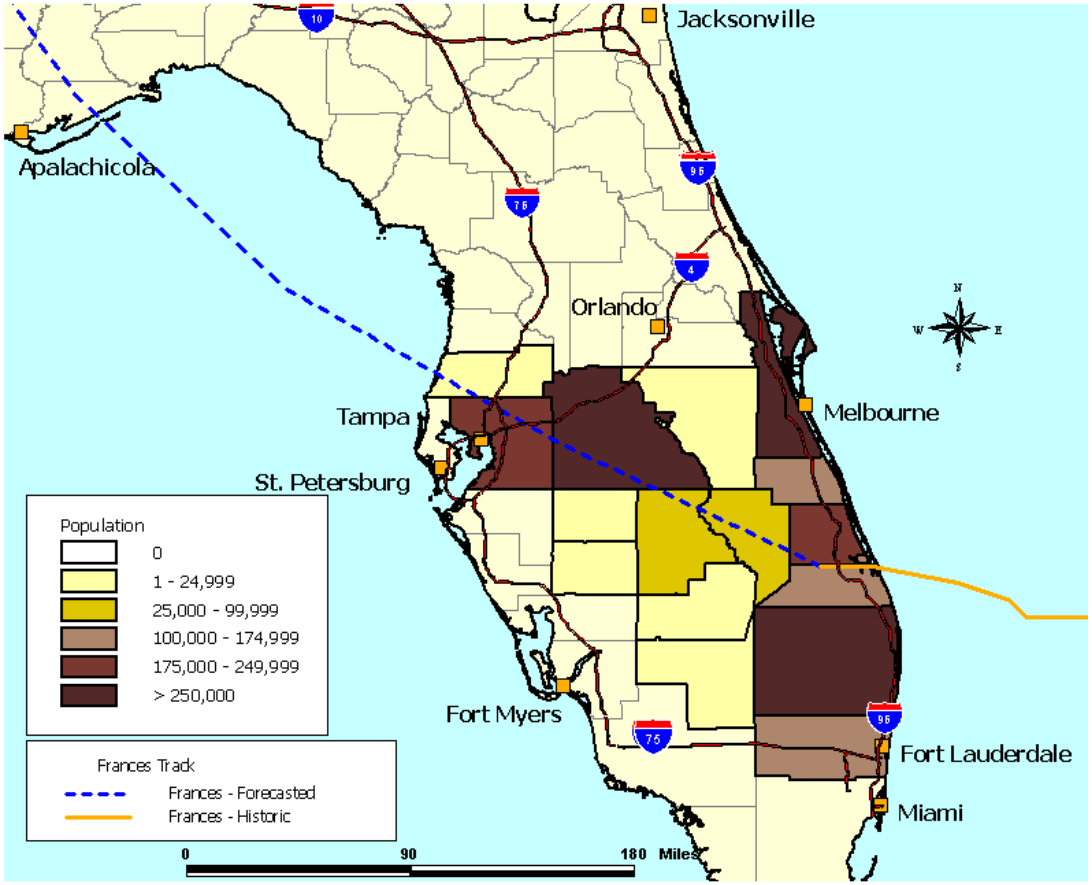
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Population Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 2,773,000 persons

Model results per county on following page

This hurricane scenario is based on a Category 2 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/05/2004)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/05/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Population Model

Landfall Has Occurred

For Official Use Only!

State	County	Population
Florida		
	Brevard	349,000
	Broward	166,000
	De Soto	1,000
	Glades	7,000
	Hardee	17,000
	Hendry	15,000
	Highlands	86,000
	Hillsborough	181,000
	Indian River	112,000
	Martin	126,000
	Okeechobee	36,000
	Osceola	15,000
	Palm Beach	1,016,000
	Pasco	12,000
	Polk	441,000
	St Lucie	193,000
TOTAL		2,773,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Population Model

Sources:
HURREVAC
LRL-DEBRIS

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Generated By:
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0630 EDT
09/05/2004